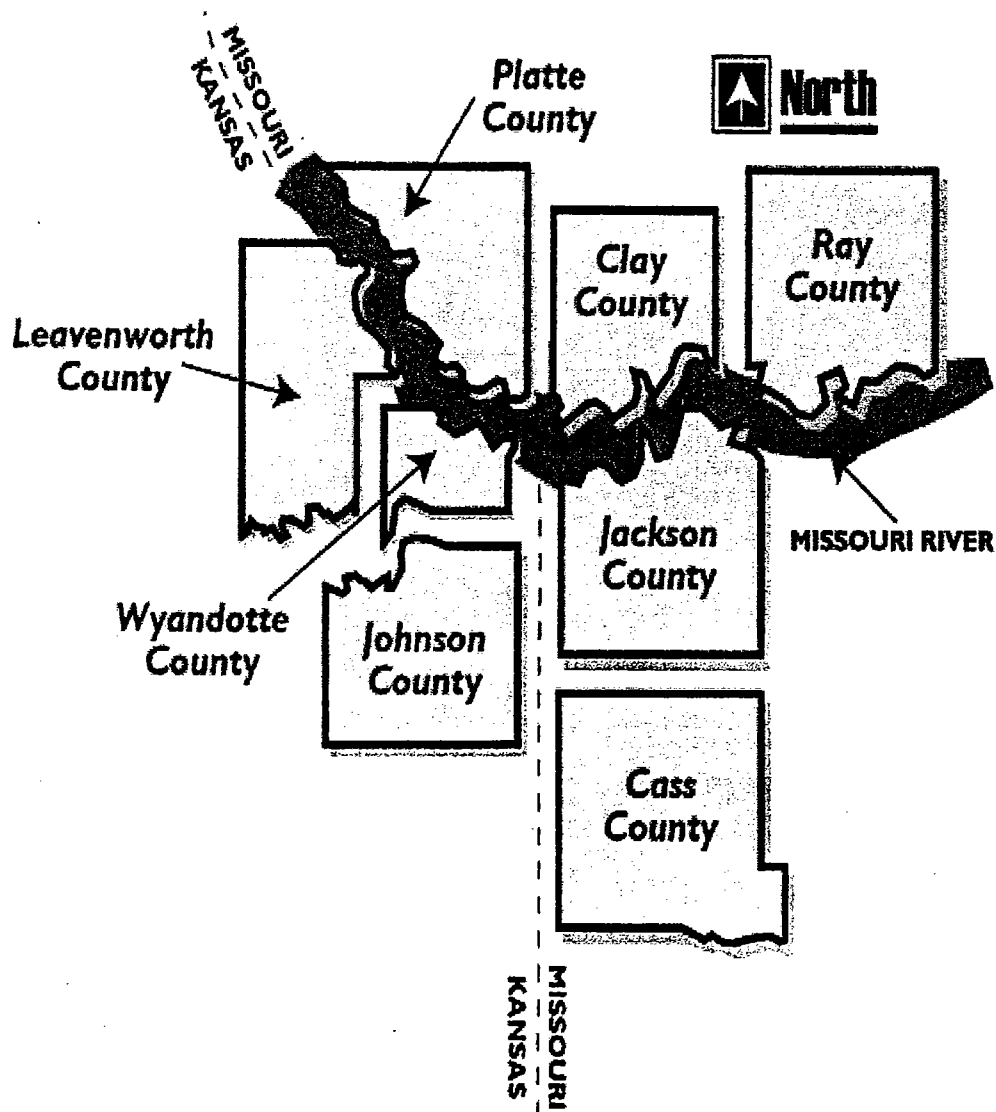


### 3.4.1

### APPENDIX A

Map of Kansas City Ozone Maintenance Area.

The maintenance area includes Jackson, Clay and Platte Counties in Missouri and the Kansas Counties of Johnson and Wyandotte. Ray and Cass Counties are not part of the non-attainment area, but are included for regional perspective. This map was developed by MARC is displayed with the permission of MARC.



1 the certified mail receipts from the four local  
2 air pollution control agencies, as well as  
3 copies of receipts from the U.S. Environmental  
4 Protection Agency and the states of Illinois and  
5 Kansas.

6 Madam Chairman, this concludes my  
7 testimony.

8 CHAIRPERSON BEARD: Thank you.

9 Tim Hines, I believe, is next.

10 TIM HINES,  
11 a witness, being first duly sworn, testified  
12 under oath as follows:

13 MR. HINES: Good morning, Madam Chair  
14 and members of the Commission. My name is Tim  
15 Hines. I'm employed with the Air Pollution  
16 Control Program as an environmental engineer.

17 I work at 205 Jefferson Street in  
18 Jefferson City, Missouri. I am here to present  
19 testimony for the 2002 Kansas City maintenance  
20 plan.

21 The plan begins on page 120 of the  
22 briefing document. I will now begin the  
23 testimony concerning the 2002 maintenance plan.

24 Can everyone hear me?

25 Today's presentation will be in three

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# AFFIDAVIT OF PUBLICATION

THE KANSAS CITY STAR COMPANY, publishers of  
THE KANSAS CITY STAR, a newspaper published in  
the City of Kansas City, County of Jackson, State of  
Missouri, confirms that the notice and/or advertisement of

MO DEPT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM

PO BOX 176

JEFFERSON CITY

MO 65102

2239898

518430

true copy of which is hereto attached,  
as duly published in the above said newspaper

FOR THE PERIOD OF: 1 Day (s)

COMMENCING: May 26, 2002

ENDING: May 26, 2002

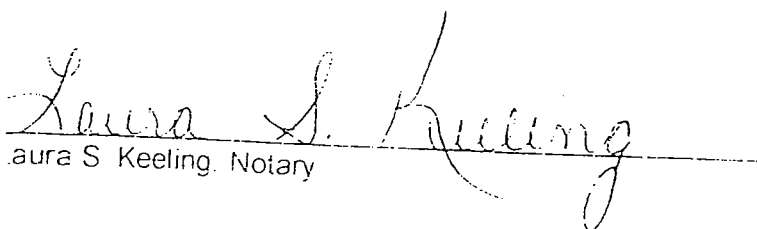
DATE OF EDITION (S): 5/26/

DATE OF PAPER (S): 251

PAGE NUMBER: #122

Subscribed and sworn to before me,  
this Tuesday, 28 May, 2002

I certify that I was duly qualified  
as a Notary Public for the State of  
Missouri, commissioned in Jackson  
County, Missouri. My commission  
expires August 18, 2002.

  
Laura S. Keeling, Notary

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\* 10 CSR 10-3.060 (amendment) Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating

This proposed amendment will eliminate the exemption for existing boilers with a capacity rating of 10 million btu/hr or less.

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### **3.4.2**

### **APPENDIX B**

Area, Point and Off-road mobile emissions for Kansas Plan counties.

# ST. LOUIS POST-DISPATCH

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THE ATTACHED ADVERTISEMENT WAS PUBLISHED IN THE ST. LOUIS  
POST-DISPATCH IN CLASSIFICATION 9000, 1 TIME, STARTING ON  
MAY 24, 2002 AND ENDING ON MAY 24, 2002.

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- Rule proposals considered at this hearing may be adopted by the Missouri Air Conservation Commission as provided for under

CUSTOMER SERVICE MANAGER

SWORN TO AND SUBSCRIBED BEFORE ME,  
THIS 27 DAY OF MAY, 2002.

NOTARY PUBLIC, CITY OF ST. LOUIS

AFFIDAVIT CHARGE \$ 5.00 EACH

PATRICIA CARLISLE  
Notary Public — Notary Seal  
STATE OF MISSOURI  
St. Louis County  
My Commission Expires: June 26, 2005

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# SPRINGFIELD NEWS-LEADER

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## DNR-Air Pollution Control

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**SR 10-3.060 (amendment) Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating**

The proposed amendment will eliminate the exemption for existing boilers a capacity rating of 100,000 Btu/hr or less.

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RSMo. For more information or a complete meeting agenda, including rules being presented for adoption, contact the Missouri Department of Natural Resources' Air Pollution Control Program at (573) 751-4817.

June 4, 2002

## PROOF OF PUBLICATION

STATE OF MISSOURI  
County of Greene

I, Marsha Burnett of Springfield, Missouri, of lawful age, do upon my oath state that I am the Legal Clerk of the News-Leader, and that I am duly authorized to and do make this affidavit for and on behalf of the News-Leader, a newspaper published daily in the City of Springfield, Greene County, Missouri; that the public advertisement, notice or order of publication, a true copy of which is hereto attached, was published in said newspaper 1 times upon the following dates:

First publication on Saturday, May 25, 2002,  
Second publication on  
Third publication on  
Fourth publication on  
Fifth publication on  
Last publication on

I do further state under oath that said newspaper has been admitted to the Post Office as second class matter; that it is a newspaper of general circulation in the City of Springfield, Missouri; that it has been published regularly and consecutively for a period of more than three years; that it has a list of bona fide subscribers voluntarily engaged as such; who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that said newspaper has complied with the provisions of Section 14968 Revised Statutes of Missouri, 1939, relating to "Public Advertisements."

Jefferson City, MO 65102. Hearing impaired persons may contact the program through Relay Missouri, (800) 735-2966.

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*Marsha Burnett*

Subscribed and sworn to before me this  
My commission expires

5th Day of June, 2002

Notary Public in and for Greene County, Missouri

 **GANNETT**

RENEE SWATERS  
NOTARY PUBLIC STATE OF MISSOURI  
POLK COUNTY  
MY COMMISSION EXP. JUNE 23, 2002



**999 KANSAS CITY OZONE MAINTENANCE AREA INVENTORY**  
**AREA SOURCE EMISSIONS FOR JOHNSON AND WYANDOTTE COUNTY OF KANSAS**

3/5/2002

Category	1999 Annual Emissions			1999 Daily Emissions			2012 Daily Emissions		
	VOC Tons	Nox Tons	CO Tons	VOC lbs/OSD	Nox lbs/OSD	CO lbs/OSD	VOC lbs/OSD	Nox lbs/OSD	CO lbs/OSD
<b>JOHNSON COUNTY</b>									
Architectural									
Surface Coating	729.31			5,289.47			6,541.46		
Asphalt Paving	426.47			3,280.54			4,057.02		
Automobile Refinis	156.23			1,201.78			1,464.89		
Bakeries	31.13			170.58			210.48		
Commercial and C	1,333.80			7,308.49			9,038.37		
Dry Cleaning	13.43			103.30			127.75		
Fuel Oil Combusti	12.30	1,230.08	307.52	19.50	1,950.25	487.56	24.12	2,411.86	602.96
Gasoline									
Marketing	1,670.33			9,893.33			6,998.41		
Graphic Arts	969.45			7,457.28			8,377.77		
Incineration	20.89	31.65	99.62	114.44	173.40	545.84	141.53	214.44	675.04
Landfills	2,405.26		27.56	13,179.48		151.00	18,712.21		214.36
NG Combustion	29.19	729.87	102.18	46.29	1,157.18	162.00	57.24	1,431.07	200.35
Natural Gas									
Combustion	115.88	2,521.78	1,498.50	497.75	11,849.13	7,171.95	550.74	13,003.52	7,879.38
Open Burning	685.50	137.10	1,942.25	3,756.16	751.23	10,642.44	4,645.22	929.04	13,161.45
Pesticides	410.50			3,473.44			4,295.59		
Small Industrial									
Surface Coating	981.77			7,552.10			8,180.11		
Solvent Cleaning	569.20			3,648.70			4,486.70		
Structural Fires	6.40	0.82	30.37	32.28	4.11	153.12	39.92	3.95	189.36
Traffic Markings	139.77			1,419.22			1,755.14		
Wildfires	37.38	6.23	218.03	410.74	68.46	2,395.98	410.74	68.46	2,395.98
Wood Combustion	927.84	59.31	4,889.17	1,471.06	94.04	7,751.59	1,819.25	116.30	9,586.35
<b>COUNTY TOTAL</b>	<b>11,672.02</b>	<b>4,716.83</b>	<b>9,115.20</b>	<b>70,325.94</b>	<b>16,047.79</b>	<b>29,461.49</b>	<b>81,934.66</b>	<b>18,178.65</b>	<b>34,905.23</b>
(tons/day)				35.16	8.02	14.73	40.97	9.09	17.45

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May 22, 2002

(D)

recently rates Aquila debt one step above junk status.

In response, Aquila said its "primary focus" for the rest of the year is improving its credit rating.

Moody's said it decided on the review after Aquila's first-quarter earnings slid 40 percent from the same quarter last year, and cash from operations "fell well short of investment needs," Moody's said.

Aquila, formerly UtiliCorp United, is one of several energy traders to run into trouble in the months since Enron, the industry's pioneer, went bankrupt amid a scandal over alleged improper accounting.

"We were fully aware that Moody's action was a potential outcome," Aquila's president and chief executive officer Robert K. Green said in a written statement. "We expect to make significant progress in short order."

The new round of 150 job cuts

by \$100 million in non-core: million in non-core: prove its rating. The \$16 million in corp head such as comm: million in execu: million from jo

On Monday, Aquila would also drop eff control of Quanta S. The Houston-based services for the pow telecommunication had opposed attempt its largest sharehol control. Aquila own percent in Quanta.

Last week, Standard Corp. said Aquila c cash crunch if its cre graded.

Also Tuesday, Andersen LLP as its firm, and hiring KP

Aquila stock clos up 11 cents, at \$14.8



**MANOR CARING AWARD** - Kirksville Manor Care Center's Manor Caring Award for May 2002 was given to Justin Smith. Justin attends North East Bible College, and has been employed at KMCC since February 2002. He enjoys spending time working with music and singing. Justin will spend ten weeks of his summer interning as a youth pastor.

Find Out The Latest News,  
Sports, Weather &  
Entertainment. Read The  
KIRKSVILLE DAILY EXPRESS!

# **WYANDOTTE COUNTY**

Architectural									
Surface Coating	250.80			1,818.99			1,747.97		
Asphalt Paving	233.19			1,793.77			1,723.74		
Automobile Refinis	41.66			320.47			390.64		
Bakeries	7.37			40.38			49.83		
Commercial and C	458.68			2,513.31			2,415.18		
Dry Cleaning	20.80			160.00			153.75		
Fuel Oil Combusti	4.23	423.01	105.75	6.71	670.67	167.67	6.44	644.48	161.12
Gasoline									
Marketing	637.84			3,777.93			2,076.60		
Graphic Arts	145.81			1,121.60			1,260.04		
Incineration	9.75	14.78	47.24	53.44	80.97	258.85	51.36	77.81	248.75
Landfills	500.12		5.73	2,740.39		31.40	2,448.65		28.06
LPG Combustion	10.04	250.99	35.14	15.92	397.94	55.71	15.30	382.40	53.54
Natural Gas									
Combustion	34.02	718.72	426.22	134.28	3,135.75	1,902.94	141.18	3,322.44	2,014.11
Open Burning	251.51	50.30	712.62	1,378.15	275.63	3,904.77	1,324.35	264.87	3,752.32
Pesticides	138.31			1,170.34			1,124.65		
Small Industrial									
Surface Coating	327.63			2,520.23			2,691.85		
Solvent Cleaning	400.72			2,568.73			3,267.05		
Structural Fires	2.20	0.28	10.45	11.10	1.41	52.66	10.67	1.36	50.60
Traffic Markings	48.07			488.05			469.00		
Wildfires	9.97	1.66	58.15	109.55	18.26	639.06	109.55	18.26	639.06
Wood Combustion	319.07	20.40	1,681.33	505.88	32.34	2,665.68	486.13	31.08	2,561.61
COUNTY TOTAL	3,851.80	1,480.14	3,082.63	23,249.23	4,612.98	9,678.73	21,963.93	4,742.71	9,509.16
(tons/day)				11.62	2.31	4.84	10.98	2.37	4.75

AREA SOURCE T	15,523.82	6,196.97	12,197.83	93,575.17	20,660.76	39,140.22	103,898.59	22,921.36	44,414.40
(tons/day)				46.79	10.33	19.57	51.95	11.46	22.21

# AFFIDAVIT OF PUBLICATION

STATE OF MISSOURI ) ss.  
County of Boone )

I, Ryan Parks, being duly sworn according to law, state that I am one of the publishers of the Columbia Daily Tribune, a daily newspaper of general circulation in the County of Boone, State of Missouri, where located; which newspaper been admitted to the Post Office as periodical class matter in the City of Columbia, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bona fide subscribers voluntarily engaged as such who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provision of Section 493.050, Revised Statutes of Missouri, 2000, and Section 59.310, Revised Statutes of Missouri, 2000. The affixed notice appeared in said newspaper in the following consecutive issues:

1st Insertion,	May 22	2002
2nd Insertion,		2002
3rd Insertion,		2002
4th Insertion,		2002
5th Insertion,		2002
6th Insertion,		2002
7th Insertion,		2002
8th Insertion,		2002
9th Insertion,		2002
10th Insertion,		2002
11th Insertion,		2002
12th Insertion,		2002
13th Insertion,		2002
14th Insertion,		2002
15th Insertion,		2002
16th Insertion,		2002
17th Insertion,		2002
18th Insertion,		2002
19th Insertion,		2002
20th Insertion,		2002
21st Insertion,		2002
22nd Insertion,		2002

PRINTERS FEE: \$124.00

By

Subscribed and sworn to before me this 22<sup>nd</sup> day of May, 2002

Notary Public

My Commission Expires Jan 3, 2006

GEORGE W. ROBINSON  
Notary Public - Notary Seal  
STATE OF MISSOURI  
Boone County  
My Commission Expires: Jan. 3, 2006

## MISSOURI AIR CONSERVATION COMMISSION WILL HOLD PUBLIC HEARING

JEFFERSON CITY, MO--The Missouri Air Conservation Commission will hold a public hearing on Kansas City Ozone Maintenance State Implementation Plan and other issues on Friday, June 28, 2002. The Public Hearing will begin at 9 a.m. at the Holiday Inn KCI, Heartland Ballroom II & III, 11832 Plaza Circle, Kansas City, Missouri. The commission will hear testimony related to the following rule actions:

- Kansas City Ozone Maintenance State Implementation Plan
- The Missouri Department of Natural Resources' Air Pollution Control Program is proposing a subsequent Kansas City Ozone Maintenance Plan to maintain the ozone standard. The U.S. EPA approved the current plan on June 23, 1992 and approved partial revision on April 24, 1998. The Clean Air Act requires that the State submit periodic revisions after re-designation as an attainment area. The plan includes an updated emissions inventory, emission growth projections, contingency measures, and provides for continued operation of the monitoring network. The plan shows that the 1999 emissions

sizes and thus the filling mechanisms and emissions venting controls had been switched. It will also add a definition for Stage I Vapor Recovery.

The above documents will be available for review at the following locations: Missouri Department of Natural Resources, Air Pollution Control Program, 205 Jefferson St., Jefferson City, (573)751-4817; Jefferson City Regional Office, 210 Hoover Road, Jefferson City, (573)751-2729; Kansas City Regional Office, 500 NE Colbern Road, Lee's Summit, (816)622-7000; Northeast Regional Office, 1709 Prospect Drive, Macon, (660)385-2129; Southeast Regional Office, 948 Lester Street, Poplar Bluff, (573)840-9750; St. Louis Regional Office, 9200 Watson Road, St. Louis, (314)301-7600; Southwest Regional Office, 2040 W. Woodland, Springfield, (417)891-4300. Persons with disabilities requiring special services or accommodations to attend the meeting can make arrangements by calling the division directly at (573)751-7840, the department's toll free number at (800)334-6946, or by writing: two weeks in advance of the meeting to: Missouri Department of Natural Resources, Air Conservation Commission Secretary, P.O.Box 176, Jefferson City, MO 65102. Hearing impaired persons may contact the program through Relay Missouri, (800)735-2966.

The commission holds public hearings under the provisions of chapter 643, RSMo. Citizens wishing to speak at the public hearing should notify the secretary to the Missouri Air Conservation Commission, Missouri Department of Natural Resources, Air Pollution Control Program P.O. Box 176, Jefferson City.

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1999 KANSAS CITY MAINTENANCE AREA INVENTORY  
JOHNSON AND WYANDOTTE COUNTY POINT SOURCE EMISSIONS SUMMARY BY 2-DIGIT SIC

12/5/2001

SIC2	DESC1	1999 Annual (tons/yr)			1999 Daily (lbs/OSD)			2012 Daily (lbs/OSD)		
		VOC	NOx	CO	VOC	NOx	CO	VOC	NOx	CO
27	Printing, Publishing And Allied Industries	296.0	0.6	0.1	2,441.6	5.3	1.1	2,744.6	6.0	1.2
28	Chemicals And Allied Products	54.8	0.2	0.2	421.3	1.7	1.4	480.0	1.9	1.6
29	Petroleum Refining And Related Industries	6.5	24.3	14.7	50.3	180.5	119.5	58.3	206.9	137.4
30	Rubber And Miscellaneous Plastics Products	98.4	1.8	0.4	757.1	14.0	3.2	864.5	17.8	4.1
32	Stone, Clay, Glass And Concrete Products	0.0	1,344.3	133.5	0.2	6,795.3	675.1	0.3	7,181.4	713.6
34	Fabricated Metal Products, Except Machinery & Tran	15.1	0.1	0.0	116.2	1.0	0.2	132.4	1.1	0.2
35	Industrial And Commercial Machinery & Computer Equ	8.9	0.1	1.1	68.1	0.7	8.3	79.1	0.8	10.6
39	Miscellaneous Manufacturing Industries	68.8			529.4			603.2		
48	Communications	0.0	0.3	0.1	0.0	0.2	0.1	0.0	0.2	0.1
49	Electric, Gas And Sanitary Services	28.9	163.1	62.7	155.5	1,025.3	404.1	180.6	1,252.7	483.9
51	Wholesale Trade-Nondurable Goods	52.9			290.8			337.5		
59	Miscellaneous Retail	0.0	0.8	0.2	0.2	4.5	0.9	0.3	5.2	1.0
76	Miscellaneous Repair Services	4.1			31.5			35.8		
COUNTY TOTALS		634.6	1,535.7	213.0	4,862.3	8,028.5	1,213.8	5,516.6	8,674.1	1,353.8
tons					2.4	4.0	0.6	2.8	4.3	0.7

# AFFIDAVIT OF PUBLICATION

STATE OF MISSOURI)  
COUNTY OF BUTLER) ss.

I, Don Schrieber, being duly sworn according to law, state that I am PUBLISHER of the DAILY AMERICAN REPUBLIC, a daily newspaper of general circulation in the counties of Butler, Ripley, Carter, Wayne, Stoddard, New Madrid and Pemiscot; which newspaper has been admitted to the Post Office as second class matter in City of Poplar Bluff, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bona fide subscribers voluntarily engaged as such who have paid or agreed to pay a stated price for a subscription for a definite period of time and that such newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri 1969. The affixed notice appeared in said newspaper in the following consecutive issues:

1st Insertion	Vol. 134	No. 113	23 day of May 2002
2nd Insertion	Vol. ....	No. ....	day of ..... 20 .....
3rd Insertion	Vol. ....	No. ....	day of ..... 20 .....
4th Insertion	Vol. ....	No. ....	day of ..... 20 .....
5th Insertion	Vol. ....	No. ....	day of ..... 20 .....
6th Insertion	Vol. ....	No. ....	day of ..... 20 .....
7th Insertion	Vol. ....	No. ....	day of ..... 20 .....
8th Insertion	Vol. ....	No. ....	day of ..... 20 .....
9th Insertion	Vol. ....	No. ....	day of ..... 20 .....
10th Insertion	Vol. ....	No. ....	day of ..... 20 .....

PUBLISHER

Subscribed and sworn to before me this 23 day of May 2002.

*[Signature]*

NOTARY PUBLIC

My commission expires 3/26/04

Publication Fee \$ 189.24

trols had been switched. It will also add a definition for Stage I Vapor Recovery.

The above documents will be available for review at the following locations: Missouri Department of Natural Resources, Air Pollution Control Program, 205 Jefferson St., Jefferson City, (573) 751-4817; Jefferson City Regional Office, 210 Hoover Road, Jefferson City, (573) 751-2729; Kansas City Regional Office, 500 NE Colbern Road, Lee's Summit, (816) 622-7000; Northeast Regional Office, 1709 Prospect Drive, Macon, (660) 385-2129; Southeast Regional Office, 948 Lester Street, Poplar Bluff, (573) 840-9750; St. Louis Regional Office, 9200 Watson Road, St. Louis, (314) 301-7600; Southwest Regional Office, 2040 W. Woodland, Springfield, (417) 891-4300.

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The commission holds public hearings under the provisions of chapter 643, RSMo. Citizens wishing to speak at the public hearing should notify the secretary to the Missouri Air Conservation Commission, Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City.

## MISSOURI AIR CONSERVATION COMMISSION WILL HOLD PUBLIC HEARING

JEFFERSON, CITY, MO -- The Missouri Air Conservation Commission will hold a public hearing on Kansas City Ozone Maintenance State Implementation Plan and other issues on Friday, June 28, 2002. The Public Hearing will begin at 9 a.m. at the Holiday Inn KCI, Heartland Ballroom II & III, 11832 Plaza Circle, Kansas City, Missouri. The commission will hear testimony related to the following rule actions.

- Kansas City Ozone Maintenance State Implementation Plan

The Missouri Department of Natural Resources' Air Pollution Control Program is proposing a subsequent Kansas City Ozone Maintenance Plan to maintain the ozone standard. The U.S. EPA approved the current plan June 23, 1992 and approved a partial revision on April 24, 1998. The Clean Air Act requires that the State submit periodic revisions to the plan as an improvement area. The plan includes an updated emissions inventory, emissions projections, conformance measures, and strategies for continued attainment of the monitoring network. The plan states that the 1999 emissions when projected to 2010 will not increase. The plan relies on an improvement level of emissions of volatile organic compounds and nitrogen oxides to maintain the ozone standard through a combination of control measures. These measures include both stationary

# WYANDOTTE COUNTY

14	Mining And Quarrying Of Nonmetallic Minerals	0.1	3.2	0.7	1.1	26.1	5.5	1.3	29.7	6.3
20	Food And Kindred Products	168.7	32.8	13.0	962.1	222.2	82.5	1,166.5	256.5	96.9
26	Paper And Allied Products	24.3		0.2	187.2		0.0	210.3		0.0
27	Printing, Publishing And Allied Industries	34.8	0.9	77.3	271.9	0.0	494.0	306.9	0.0	549.2
28	Chemicals And Allied Products	169.6	115.7	5.9	1,119.0	732.6	67.9	1,274.0	811.1	78.5
29	Petroleum Refining And Related Industries	3.7	10.7		42.9	126.2		49.7	144.8	
30	Rubber And Miscellaneous Plastics Products	0.2	3.7	0.9	1.1	23.8	6.0	1.4	27.1	6.8
32	Stone, Clay, Glass And Concrete Products	213.5	435.1	342.8	1,260.5	2,483.6	1,886.0	1,342.6	2,688.6	2,020.0
34	Fabricated Metal Products, Except Machinery & Tran	107.5	42.8	328.0	832.0	236.2	1,802.5	944.9	263.9	2,002.5
35	Industrial And Commercial Machinery & Computer Equ	50.7	0.5	0.1	440.3	3.8	0.9	501.6	4.3	1.1
36	Electronic & Other Electrical Equipment & Componen	25.4			182.2			207.6		
37	Transportation Equipment	1,476.7	49.6	10.4	11,177.7	357.0	75.3	14,168.7	410.9	87.5
49	Electric, Gas And Sanitary Services	105.9	6,808.9	465.3	694.3	51,363.6	3,308.5	859.9	64,381.7	4,138.5
51	Wholesale Trade-Non durable Goods	462.7	17.2	42.4	2,574.5	93.2	229.7	2,987.1	108.2	266.6
80	Health Services	0.6	27.1	6.8	2.0	94.7	24.1	2.5	115.9	29.5
COUNTY TOTALS		2,844.5	7,548.1	1,293.9	19,748.6	55,763.0	7,983.0	24,024.8	69,242.7	9,283.3
tons		9.9	27.9	4.0	12.0	34.6	4.6			

## TOTALS

tons	3,479.0	9,083.8	1,506.9	24,610.9	63,791.5	9,196.8	29,541.4	77,916.8	10,637.1	
	12.3	31.9	4.6	14.8	39.0	5.3				

**3.4.6**

**APPENDIX F**

**June 28, 2002 Public Hearing Notice  
and Certification of Publication of the Notice.**



# 1999 KANSAS CITY MAINTENANCE AREA INVENTORY

OffRoad Mobile Source Emission Summary for the Kansas Counties of Johnson and Wyandotte

3/5/2005

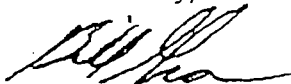
Source Category	1999 Annual Emissions (tons/yr)			1999 Daily Emissions (lbs/OSD)			2012 Daily Emissions (lbs/OSD)		
	VOC	NOx	CO	VOC	NOx	CO	VOC	NOx	CO
Johnson									
Agricultural Equipment	26.2	218.1	129.1	269.0	2,241.3	1,315.9	147.8	1,522.1	1,426.5
Airport Equipment	2.0	9.2	19.1	11.1	50.7	103.3	5.4	41.7	122.1
Commercial Equipment	582.6	505.8	14,323.9	3,728.6	3,207.7	91,466.6	2,604.3	3,723.5	133,794.4
Construction and Mining Equipment	915.0	4,906.2	6,015.7	9,045.3	48,258.4	58,723.4	3,668.0	31,168.5	53,253.8
Industrial Equipment	90.1	600.2	2,199.5	547.6	3,722.2	13,722.5	259.7	4,037.0	13,969.2
Lawn and Garden Equipment (Com)	2,025.0	468.1	27,531.8	18,163.8	4,536.1	264,397.0	9,807.3	4,586.6	331,617.6
Lawn and Garden Equipment (Res)	448.0	27.5	6,601.0	2,918.8	180.2	44,576.9	1,492.7	198.3	54,700.2
Logging Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pleasure Craft	13.1	0.8	29.5	61.2	3.6	129.7	41.2	5.0	130.8
Railroad Equipment	1.6	6.7	15.6	11.1	46.7	108.1	5.5	35.6	111.9
Recreational Equipment	93.5	10.5	1,226.9	645.4	78.2	8,791.1	641.3	66.6	9,673.1
Aircraft	23.2	3.9	727.3	126.9	21.6	3,985.1	153.5	26.1	4,821.6
Commercial Marine Vessels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Railroad Locomotives	76.4	1,961.9	193.2	418.4	10,750.2	1,058.4	519.2	8,780.7	1,517.9
COUNTY TOTALS	4,296.6		59,012.6	35,947.1	73,096.7	488,378.1	19,346.0	54,191.6	605,139.2
(tons/day)				18.0	36.5	244.2	9.7	27.1	302.6

Mr. Dennis Grams  
July 7, 2000  
Page 2

gasoline will be introduced into the Kansas City area in a much more expeditious manner providing measurable VOC reductions next year. Finally, accounting for the VOC reductions attributable to reducing the vapor pressure of cold cleaning solvents will only add to the benefits realized by implementing a VOC reduction program that builds on the federal initiative rather than implementing a program that becomes less effective as vehicles with OBVR penetrate the fleet.

If you have any questions or desire additional information, please contact Jan Sides, Director of the Bureau of Air and Radiation, at 785/296-1551.

Sincerely,



BILL GRAVES  
Governor

Source Category	1999 Annual Emissions (tons/yr)			1999 Daily Emissions (lbs/OSD)			2012 Daily Emissions (lbs/OSD)		
	VOC	NOx	CO	VOC	NOx	CO	VOC	NOx	CO
Wyandotte									
Agricultural Equipment	5.2	43.0	25.4	53.0	441.6	259.3	29.1	299.9	281.0
Airport Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Equipment	126.2	109.5	3,101.9	807.4	694.6	19,807.3	564.0	806.3	28,973.3
Construction and Mining Equipment	77.9	417.9	512.4	770.4	4,110.1	5,001.4	312.4	2,654.6	4,535.0
Industrial Equipment	48.0	328.6	1,271.9	294.8	2,056.8	7,959.7	128.2	2,256.1	8,002.3
Lawn and Garden Equipment (Com)	220.1	50.9	2,992.0	1,974.0	493.0	28,733.6	1,065.8	498.5	36,038.3
Lawn and Garden Equipment (Res)	211.5	13.0	3,117.3	1,378.4	85.1	21,051.2	704.9	93.6	25,831.3
Logging Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pleasure Craft	18.0	1.1	40.6	84.1	4.9	178.3	56.7	6.9	179.3
Railroad Equipment	0.6	2.5	5.9	4.2	17.6	40.6	2.1	13.4	42.1
Recreational Equipment	16.6	2	253.1	114.3	15.2	1,796.50	111.3	12.5	1,987.90
Aircraft	0.1	0.0	3.3	0.6	0.1	18.0	0.7	0.1	21.3
Commercial Marine Vessels	0.6	14.5	1.6	3.0	79.4	8.8	3.4	89.7	9.3
Railroad Locomotives	232.8	4,917.4	504.1	1,275.5	26,944.7	2,762.3	1,203.7	20,060.9	3,521.6
COUNTY TOTALS	957.5	5,900.4	11,829.4	6,759.7	34,943.0	87,616.9	4,182.2	26,792.6	109,426.7
(tons/day)				3.40	17.50	43.80	2.10	13.40	54.70
TOTALS	5,254.10	5,900.40	70,842.10	42,706.80	108,039.70	575,995.00	23,528.20	80,984.20	714,565.90
(tons/day)				21.4	54	288	11.8	40.5	357.3

## STATE OF KANSAS

BILL GRAVES, Governor  
State Capitol, 2nd Floor  
Topeka, Kansas 66612-1590



OFFICE OF THE GOVERNOR

(785) 296-3232  
1-800-748-4408  
FAX: (785) 296-7973

July 7, 2000

Mr. Dennis Grams  
Region VII Administrator  
U.S. Environmental Protection Agency  
901 N. 5<sup>th</sup> Street  
Kansas City, KS 66101

Dear Mr. Grams:

This letter is in response to your letter dated April 11, 2000 in which you request the state of Kansas to select a control strategy to satisfy the Kansas City maintenance plan contingency measures now that the courts have determined that reformulated gasoline is no longer an option.

The State of Kansas will commit to implement a 7.0 Reid Vapor Pressure (RVP) fuel program in Johnson and Wyandotte counties with a target date of the summer of 2001. This will amount to creditable VOC reductions of 2.33 tons per day if implemented throughout the five county Kansas City maintenance area. The State of Kansas will also commit to implementation of a phased program to reduce vapor pressure of cold cleaning solvents to less than or equal to 1.0 mmHg. It is estimated this will amount to creditable VOC reductions in excess of 3 tons per day if implemented throughout the five county Kansas City maintenance area. These two control measures will provide more than a 5.33 ton per day reduction in VOCs as compared to the 4.71 tons per day from a Stage II program. Implementation schedules will be submitted under separate cover.

It is my policy to assure, to the extent possible, that state programs complement any related federal initiatives in order to provide the maximum benefit at the least cost. For this reason, it would appear to me to be counterproductive and against good public policy to propose implementation of Stage II vapor recovery in light of the introduction of on-board fuel vapor recovery (OBVR) in newer motor vehicles. Using the California estimation of the fleet penetration of OBVR motor vehicles, by the year 2003 the combination of VOC reductions attributable to 7.0 RVP gasoline plus those attributable to the motor vehicle fleet with OBVR will result in a VOC reductions equal to 70% of the reductions attributable to Stage II. By the year 2003, VOC reductions attributable to 7.0 RVP gasoline plus OBVR will already exceed the VOC reductions which would be realized by implementing Stage II. In addition, 7.0 RVP

### **3.4.3**

### **APPENDIX C**

Area, Point, and Off-road emission sources for Missouri Plan counties.

Mr. Dennis Grams  
August 22, 2000  
Page Two

To assure our air quality problems in Kansas City are resolved, I am directing the Missouri Department of Natural Resources to revise the Kansas City Ozone Maintenance Plan and require implementation of additional control strategies upon further violation of the one hour primary national ambient air quality standard for ozone. These contingencies shall include implementation of stage II vapor recovery and industrial emissions offsets for all major new sources or source modifications.

If you have any further questions or concerns, please contact Mr. Stephen Mahfood, Director, Department of Natural Resources at (573) 751-4732.

Very truly yours,



Mel Carnahan

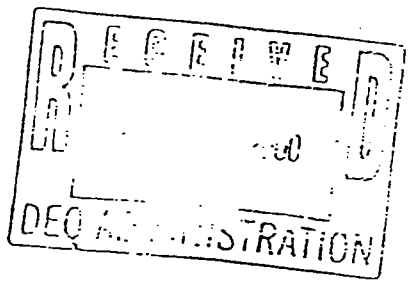
MC:kds

cc: Governor Bill Graves, Kansas  
David Warm, Mid-America Regional Council

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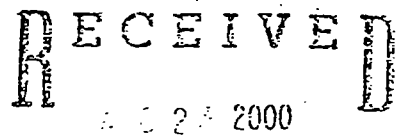
OFFICE OF THE GOVERNOR  
STATE OF MISSOURI  
JEFFERSON CITY  
65101



MEL CARNAHAN  
GOVERNOR

STATE CAPITOL  
ROOM 216  
(314) 751-3222

August 22, 2000



AIR POLLUTION CONTROL  
PROGRAM

Mr. Dennis Grams  
Region VII Administrator  
US Environmental Protection Agency  
901 North Fifth Street  
Kansas City, KS 66101

Dear Mr. Grams:

This letter is in response to your letter dated April 11, 2000, which requested that the State of Missouri select a control strategy to satisfy the Kansas City Ozone Maintenance Plan contingency measures now that reformulated gasoline has been eliminated as a viable control measure.

Missouri is committed to resolving the air quality problems in Kansas City. The State of Missouri commits to implementing a 7.0 Reid Vapor Pressure (RVP) gasoline program in Clay, Platte, and Jackson counties with an implementation date of June 1, 2001. The implementation of 7.0 RVP gasoline will require the Missouri Department of Natural Resources to revise both the Kansas City Ozone Maintenance Plan and the Kansas City RVP rule. The department is currently working on the schedule for both of these revisions.

In addition, the current Kansas City Ozone Maintenance Plan requires emission reductions beyond those achieved by the implementation of 7.0 RVP gasoline. Therefore, the State of Missouri will revise the current petroleum liquid storage, loading and transfer regulation to include additional reporting and inspection requirements as well as the installation and testing of pressure vacuum relief valves. The State of Missouri also intends to implement a cold solvent cleaning regulation similar to that recently developed for the St. Louis ozone nonattainment area.



Area source emissions for Missouri SIP counties

Missouri Area Emission Sources

STATE	FIPS NAME	SIC	1999 TSP	1999 CO	1999 NO <sub>x</sub>	1999 SO <sub>2</sub>	1999 PM <sub>10</sub>	2012 TSP	2012 CO	2012 NO <sub>x</sub>	2012 SO <sub>2</sub>	2012 PM <sub>10</sub>	SOURCE CATEGORY
29	047 CLAY	17	2401001000	87.196	0	0	0	2446.72	0.00	0.00	0.00	0.00	Architectural Coating
29	095 JACKSON NA		2401001000	267.05	0	0	0	2446.72	0.00	0.00	0.00	0.00	Architectural Coating
29	165 PLATTE NA		2461021000	1.32	0	0	0	1.66	0.00	0.00	0.00	0.00	Asphalt Paving Cutback
29	047 CLAY NA		2461021000	13.22	0	0	0	13.93	0.00	0.00	0.00	0.00	Asphalt Paving Cutback
29	095 JACKSON NA		2461021000	12.33	0	0	0	12.83	0.00	0.00	0.00	0.00	Asphalt Paving Cutback
29	165 PLATTE NA		2461022000	728.45	0	0	0	738.55	0.00	0.00	0.00	0.00	Asphalt Paving Emulsified
29	047 CLAY NA		2461022000	197.30	0	0	0	233.53	0.00	0.00	0.00	0.00	Asphalt Paving Emulsified
29	095 JACKSON NA		2461022000	73.38	0	0	0	763.54	0.00	0.00	0.00	0.00	Asphalt Paving Emulsified
29	165 PLATTE 7532		2401005000	431.81	0	0	0	534.17	0.00	0.00	0.00	0.00	Auto-body Refinishing
29	047 CLAY 7532		2401005000	333.90	0	0	0	710.87	0.00	0.00	0.00	0.00	Auto-body Refinishing
29	095 JACKSON 7532		2401005000	1727.22	0	0	0	2216.68	0.00	0.00	0.00	0.00	Auto-body Refinishing
29	165 PLATTE 2051, 5461		2302050000	49.36	0	0	0	49.52	0.00	0.00	0.00	0.00	Bakeries
29	047 CLAY 2051, 5461		2302050000	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	Bakeries
29	095 JACKSON 2051, 5461		2103002000	4.93	36.04	41.73	0	7.34	53.62	0.00	0.00	0.00	Commercial Institutional Coal Combustion
29	165 PLATTE NA		2103002000	11.15	103.42	139.75	0	17.83	130.30	0.00	0.00	0.00	Commercial Institutional Coal Combustion
29	047 CLAY NA		2103002000	63.28	462.45	535.47	0	71.48	522.38	0.00	0.00	0.00	Commercial Institutional Coal Combustion
29	095 JACKSON NA		2103002000	0.13	25.48	16.37	0	0.61	37.20	0.00	0.00	0.00	Commercial Institutional Fuel Oil Combustion
29	165 PLATTE NA		2103004000	1.24	73.11	18.28	0	1.57	92.11	0.00	0.00	0.00	Commercial Institutional Fuel Oil Combustion
29	047 CLAY NA		2103004000	36.91	36.91	31.73	0	6.26	369.27	0.00	0.00	0.00	Commercial Institutional Fuel Oil Combustion
29	095 JACKSON NA		2103007000	0.61	17.19	2.33	0	0.91	25.57	0.00	0.00	0.00	Commercial Institutional LPG Combustion
29	165 PLATTE NA		2103007000	0.76	29.33	6.69	0	2.22	62.15	0.00	0.00	0.00	Commercial Institutional LPG Combustion
29	047 CLAY NA		2103007000	7.88	220.58	29.94	0	8.90	249.16	0.00	0.00	0.00	Commercial Institutional LPG Combustion
29	095 JACKSON NA		2103007000	7.99	13.21	121.98	0	11.88	216.03	0.00	0.00	0.00	Commercial Institutional Natural Gas Combustion
29	165 PLATTE NA		2103006000	22.92	416.69	350.02	0	28.87	525.00	0.00	0.00	0.00	Commercial Institutional Natural Gas Combustion
29	047 CLAY NA		2460000000	1166.52	0	0	0	1457.6	2104.65	0.00	0.00	0.00	Commercial Institutional Natural Gas Combustion
29	095 JACKSON NA		2460000000	10904.44	0	0	0	1469.72	0.00	0.00	0.00	0.00	Commercial Solvent Use
29	165 PLATTE NA		2460000000	573.85	0	0	0	11352.94	0.00	0.00	0.00	0.00	Commercial Solvent Use
29	047 CLAY 7216		2420000000	706.15	0	0	0	701.49	0.00	0.00	0.00	0.00	DRY CLEANING
29	095 JACKSON 7216		2420000000	340.71	0	0	0	338.55	0.00	0.00	0.00	0.00	DRY CLEANING
29	165 PLATTE NA		2810001000	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	DRY CLEANING
29	047 CLAY NA		2810001000	5.98	0.83	29.82	0	0.00	0.00	0.00	0.00	0.00	Forest/Wild Fires
29	095 JACKSON NA		2810001000	63.34	15.84	554.23	0	65.95	16.49	577.03	0.00	0.00	Forest/Wild Fires
29	165 PLATTE NA		2501060000	128.08	0	0	0	158.08	0.00	0.00	0.00	0.00	Gasoline Marketing - Stage I
29	047 CLAY NA		2501060000	158.92	0	0	0	538.85	0.00	0.00	0.00	0.00	Gasoline Marketing - Stage I
29	095 JACKSON NA		2501060100	805.72	0	0	0	127.02	0.00	0.00	0.00	0.00	Gasoline Marketing - Stage II
29	165 PLATTE NA		2501060100	215.45	0	0	0	42.26	0.00	0.00	0.00	0.00	Gasoline Marketing - Stage II
29	047 CLAY NA		2501060100	7412.58	0	0	0	1168.61	0.00	0.00	0.00	0.00	Gasoline Marketing - Stage II
29	095 JACKSON NA		2501060201	292.76	0	0	0	361.33	0.00	0.00	0.00	0.00	Gasoline Marketing - Tank Breathing Loss
29	165 PLATTE NA		2501060201	37.74	0	0	0	123.10	0.00	0.00	0.00	0.00	Gasoline Marketing - Tank Breathing Loss
29	047 CLAY NA		2425000000	359.15	0	0	0	328.41	0.00	0.00	0.00	0.00	Graphic Arts
29	095 JACKSON NA		2425000000	628.52	0	0	0	574.71	0.00	0.00	0.00	0.00	Graphic Arts
29	165 PLATTE NA		2102002000	7.79	2856.52	64.92	0	7.68	2816.03	0.00	0.00	0.00	Industrial Coal Combustion
29	047 CLAY NA		2102002000	28.13	3847.51	20.08	0	23.45	8635.29	0.00	0.00	0.00	Industrial Coal Combustion
29	095 JACKSON NA		2102002000	28.13	3847.51	20.08	0	23.45	8635.29	0.00	0.00	0.00	Industrial Coal Combustion

The Honorable Carol Browner,  
July 28, 1999  
Page 2

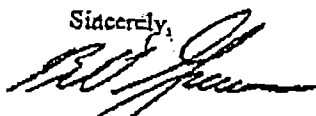
Our concerns regarding the groundwater contamination potential of increased levels of MTBE were validated by the report of your MTBE advisory panel. Eighty-eight percent of petroleum clean-up sites in Kansas are contaminated with MTBE. In addition, Kansas' experience corroborates that MTBE molecules travel unusually fast through soil and into groundwater. In Rush Center, Kansas, MTBE had migrated under monitoring wells to public wells despite the fact that the contaminant plume was well defined. Permanent, long-term treatment at the public water plant was required.

The decision to opt-in should be viewed as a short term, stop-gap measure made in response to an artificial crisis generated by transportation conformity requirements. Since the demonstration that additional refining capacity for RFG is not needed, a long-term solution should not be held captive until January 1, 2004, a date that cannot now be justified in regard to its original purpose. Therefore, I reiterate my request to continue to review alternatives to RFG in order to develop and implement the most effective manner for improving Kansas City air quality. Also, I pledge to work with you in your efforts to reduce the use of MTBE in gasoline as quickly as possible. I am confident that a performance based state blend, which could include ethanol, will continue to improve Kansas City air quality and meet your goal.

In addition, with the introduction of RFG into the Kansas City area, both state and federal regulations regarding fuel standards will be in place in Kansas City. Since EPA will be responsible for enforcement of the requirements for RFG brought into the Kansas City area, it is essential EPA does not authorize the introduction of gasoline into the Kansas City maintenance area which violates state regulations and the SIP.

I believe many questions remain on this issue. I hope to work with EPA and our partners in the Kansas City area to find an effective, long-term solution.

Sincerely,



BILL GRAVES  
Governor

BG:jca

cc: Clyde D. Graeber, Secretary, KDHE  
Dennis Grams, Regional Administrator, Region VII  
E. Dean Carlson, Secretary, KDOT  
David Geiger, Division Administrator, FHWA

Area source emissions for Missouri SIP counties

29	165	PLATTE	NA	2102004000	0.53	52.64	13.16	0.56	56.38	14.10	Industrial Fuel Oil Combustion
29	047	CLAY	NA	2102004000	3.95	384.56	96.14	3.79	379.11	94.78	Industrial Fuel Oil Combustion
29	095	JACKSON	NA	2102004000	11.91	1191.10	297.77	11.63	1162.53	290.63	Industrial Fuel Oil Combustion
29	165	PLATTE	NA	2102007000	1.00	45.57	7.68	1.28	48.81	8.22	Industrial LPG Combustion
29	047	CLAY	NA	2102007000	8.76	332.94	56.07	8.64	328.22	55.28	Industrial LPG Combustion
29	095	JACKSON	NA	2102007000	27.14	1031.32	173.88	26.49	1006.48	169.51	Industrial LPG Combustion
29	165	PLATTE	NA	2102006000	5.48	139.41	83.65	5.87	149.33	89.60	Industrial Natural Gas Combustion
29	047	CLAY	NA	2102006000	40.01	1018.53	61.12	39.45	328.22	55.28	Industrial Natural Gas Combustion
29	095	JACKSON	NA	2102006000	123.93	3154.70	1892.82	120.96	3079.03	1847.42	Industrial Natural Gas Combustion
29	165	PLATTE	NA	2102003000	128.08	0	0	139.49	0.00	0.00	Industrial Surface Coating
29	047	CLAY	NA	2102003000	4232.09	0	0	4172.12	0.00	0.00	Industrial Surface Coating
29	095	JACKSON	NA	2102003000	1135.32	0	0	1079.94	0.00	0.00	Industrial Surface Coating
29	165	PLATTE	NA	2610020000	6.86	1.37	19.45	8.65	1.73	24.50	Institutional/Commercial Open Burning
29	047	CLAY	NA	2610020000	1.66	19.22	6.78	8.93	1.61	22.75	Institutional/Commercial Open Burning
29	095	JACKSON	NA	2610020000	7.90	1.58	22.37	8.22	1.64	23.29	Institutional/Commercial Open Burning
29	165	PLATTE	4953	2620030000	36.33	0	0	35.77	0.00	0.00	Municipal Landfills
29	047	CLAY	4953	2620030000	96.25	0	0	113.93	0.00	0.00	Municipal Landfills
29	095	JACKSON	4953	2620030000	337.87	0	0	331.77	0.00	0.00	Municipal Landfills
29	165	PLATTE	NA	2610020000	14.10	21.37	71.22	17.77	26.92	89.74	On-site Incineration
29	047	CLAY	NA	2610020000	35.46	53.73	179.11	41.98	63.60	212.01	On-site Incineration
29	095	JACKSON	NA	2610020000	131.82	199.73	665.78	137.25	207.95	693.17	On-site Incineration
29	165	PLATTE	NA	2610020000	92.81	0	0	120.47	0.00	0.00	Pesticide Application
29	047	CLAY	NA	2618000000	1505.65	0	0	1782.21	0.00	0.00	Pesticide Application
29	095	JACKSON	NA	2618000000	5228.01	0	0	5441.07	0.00	0.00	Pesticide Application
29	165	PLATTE	NA	2104002000	0.00	0.00	0.00	0.00	0.00	0.00	Residential Coal Combustion
29	047	CLAY	NA	2104002000	0.00	0.00	0.00	0.00	0.00	0.00	Residential Coal Combustion
29	095	JACKSON	NA	2104002000	2.46	2.24	67.70	2.66	2.42	73.06	Residential Coal Combustion
29	165	PLATTE	NA	2104004000	0.03	0.86	0.24	0.02	1.18	0.31	Residential Fuel Oil Combustion
29	047	CLAY	NA	2104004000	0.05	1.39	0.39	0.20	1.72	0.48	Residential Fuel Oil Combustion
29	095	JACKSON	NA	2104004000	0.18	1.31	0.39	0.20	5.08	1.41	Residential Fuel Oil Combustion
29	165	PLATTE	NA	2104007000	0.99	27.59	3.74	1.29	36.20	4.91	Residential LPG Combustion
29	047	CLAY	NA	2104007000	1.18	32.99	10.44	1.45	40.64	5.52	Residential LPG Combustion
29	095	JACKSON	NA	2104007000	2.75	76.90	10.44	2.96	82.99	11.26	Residential LPG Combustion
29	165	PLATTE	NA	2104006000	22.82	389.95	165.93	28.10	480.31	204.39	Residential Natural Gas Combustion
29	047	CLAY	NA	2104006000	102.03	1743.81	742.05	110.11	1881.91	800.81	Residential Natural Gas Combustion
29	095	JACKSON	NA	2610030000	128.69	25.74	364.61	162.13	32.43	459.38	Residential Open Burning
29	165	PLATTE	NA	2610030000	177.07	25.43	360.82	150.53	30.11	426.51	Residential Open Burning
29	047	CLAY	NA	2610030000	148.04	29.61	419.43	154.12	30.82	436.69	Residential Open Burning
29	095	JACKSON	NA	2104008000	43.46	0.49	47.94	53.53	0.61	59.05	Residential Wood
29	165	PLATTE	NA	2104008000	56.04	0.98	95.57	93.50	1.06	103.14	Residential Wood
29	047	CLAY	NA	2415000000	457.59	0	0	470.00	0.00	0.00	Solvent Cleaning
29	095	JACKSON	NA	2415000000	859.86	0	0	822.95	0.00	0.00	Solvent Cleaning
29	165	PLATTE	NA	2810030000	11.27	1.43	61.46	13.34	1.70	72.75	Structure Fires
29	047	CLAY	NA	2810030000	1.68	5.33	228.45	43.61	5.55	237.85	Structure Fires
29	095	JACKSON	NA	2401008000	19.30	0	0	24.32	0.00	0.00	Traffic Markings
29	165	PLATTE	2851	2401008000	18.33	0	0	57.45	0.00	0.00	Traffic Markings
29	047	CLAY	2851	2401008000	180.41	0	0	187.83	0.00	0.00	Traffic Markings
29	095	JACKSON	2851	2401008000	180.41	0	0	187.83	0.00	0.00	Traffic Markings
TOTAL (lbs./OSD)					86,285.06	25,971.49	10,637.78	82,002.52	25,910.66	10,999.78	
TOTAL (tons/OSD)					43.14	12.99	5.32	41.00	12.96	5.50	

STATE OF KANSAS



BILL GRAVES, Governor  
State Capitol, 2nd Floor  
Topeka, Kansas 66612-1590

(785) 296-3232  
1-800-748-4408  
FAX: (785) 296-7973

OFFICE OF THE GOVERNOR

July 28, 1999

The Honorable Carol Browner, Administrator  
U.S. Environmental Protection Agency  
401 M Street, S.W.  
Washington, D.C. 20460

Dear Administrator Browner:

By this letter, Kansas is applying to opt-in to the federal reformulated gasoline (RFG) program in Johnson County, Kansas and Wyandotte County, Kansas. As authorized by section 211(k)(6) of the federal Clean Air Act, Kansas is making application to the Administrator to apply the prohibition set forth in section 211(k)(5) of the federal Clean Air Act in Johnson County, Kansas, and Wyandotte County, Kansas. As authorized by 40 CFR 80.70(k), I am petitioning to include Johnson County, Kansas, and Wyandotte County, Kansas as covered areas for purposes of subparts D, E and F of 40 CFR Part 80. Also, I request that EPA utilize all the time allowed by law before RFG is required to be introduced in Johnson County, Kansas and Wyandotte County, Kansas.

I am exercising my prerogative as Governor to opt-in to the federal RFG program so the long-range transportation plan for Kansas City will demonstrate conformity with the state implementation plan mobile source volatile organic compound (VOC) emissions budget. This conformity demonstration will allow transportation projects in these counties to continue under the implementation procedures crafted in response to *Environmental Defense Fund v. Browner*. It is my understanding that this will also satisfy the contingency plan VOC reduction requirements of the Kansas City maintenance plan as authorized at 64 FR 28757-28761, May 27, 1999.

I also request that you remain open to considering alternatives to RFG for the Kansas City metropolitan area prior to the January 1, 2004 "opt-out" time frame for RFG. Much has changed since this lock-in date was established by EPA in October 1997 which causes great concern about the long-term ramifications of opting into the federal RFG program. Valid public health concerns about the RFG oxygenate methyl tertiary butyl ether (MTBE) are being raised at a time when studies suggest the RFG oxygenate requirement may not provide the intended VOC emission reduction benefits. Yet Kansas is being forced to opt-in to a program which may increase the potential exposure of Kansas citizens to this possible carcinogen.

I am also concerned that Kansas City may not realize all the air quality benefits that have been suggested as a result of an RFG opt-in. Specifically, Kansas City may not receive the VOC reductions that have been touted by various stakeholders throughout the process to date. In fact, we understand the VOC reductions could be significantly less. A cursory review of the growth and increased traffic demands of the Kansas City area readily confirm that RFG may only be a stop-gap remedy to achieve theoretical transportation conformity.

MISSOURI POINT SOURCE EMISSIONS (1999-2012)  
METROPOLITAN KANSAS CITY

SIC	SIC Description	FIPS	1999 VOC Annual Emissions (tons/year)	1999 NOx Annual Emissions (tons/year)	1999 CO Annual Emissions (tons/year)	1999 VOC Daily Emissions (lbs/OSD)	1999 NOx Daily Emissions (lbs/OSD)	1999 CO Daily Emissions (lbs/OSD)	2012 Growth factor	2012 VOC Daily Emissions (lbs/OSD)	2012 NOx Daily Emissions (lbs/OSD)	2012 CO Daily Emissions (lbs/OSD)
CLAY COUNTY												
00		047	12.9			99.4			1.43542802	142.7		
20	Food product manufacturing	047	317.0	86.3	74.1	1,750.0	513.8	440.1	1.340834196	2,346.5	688.9	590.1
26	Paper product manufacturing	047	16.3	20.2	16.9	102.8	109.0	91.5	1.333395961	137.1	145.4	121.9
27	Printing & publishing	047	93.9	4.2	1.2	635.3	16.3	2.4	1.086895585	690.5	17.7	2.6
28	Chemical manufacturing	047	116.3	6.2	1.5	853.2	43.6	10.8	1.286791723	1,097.9	56.1	13.9
29	Petroleum refining	047	3.4	7.1	1.3	25.5	72.4	13.3	1	25.5	72.4	13.3
30	Rubber & plastic manufacturing	047	14.2	0.3	0.2	98.3	2.1	1.3	1.209286804	118.9	2.6	1.5
32	Stone, clay, glass, and concrete products manufacturing	047	4.9	1.7	0.4	37.7	25.9	6.2	1.704112787	64.2	44.1	10.5
34	Fabricated metal products, except machinery and transportation equipment	047	0.2			0.8			1.723076923	1.4		
36	Electronic equipment & components, except computer equipment manufacturing	047	2.2	1.0	0.2	13.1	6.1	1.0	1.293747776	16.9	7.9	1.3
37	Transportation equipment manufacturing	047	1,811.6	121.0	99.4	12,758.5	823.2	674.9	1.832050134	23,374.3	1,508.2	1,236.5
39	Miscellaneous manufacturing	047	6.4	1.2	0.3	54.5	10.3	2.3	1.999914288	108.9	20.7	4.6



OFFICE OF THE GOVERNOR  
STATE OF MISSOURI  
JEFFERSON CITY  
65101

MEL CARNAHAN  
GOVERNOR

July 28, 1999

STATE CAPITOL  
ROOM 316  
(573) 751-3222

Ms. Carol Browner, Administrator  
U.S. Environmental Protection Agency  
401 M. Street, S.W.  
Washington, D.C. 20460


Dear Ms. Browner:

Pursuant to Section 211(k)(6) of the Clean Air Act, I request the U.S. Environmental Protection Agency extend the requirement for reformulated gasoline to the Missouri portion of the Kansas City Ozone Maintenance Area beginning June 1, 2000.

Thank you for your attention to this matter. I look forward to the successful implementation of this program as well as continued attainment of the federal clean air standards for the Kansas City area.

If you have any further questions or concerns, please contact Mr. Stephen Mahfood, Director, Department of Natural Resources (573) 751-4732. Thank you.

Very truly yours,

  
Mel Carnahan

MC/gh

c: Dennis Grams, EPA, Region VII



**3.4.5**

**APPENDIX E**

Letters from Missouri and Kansas State Governors  
Responding to RFG program.



28	Chemical manufacturing	095	78.9	59.5	30.9	921.5	398.5	196.9	1,286,791,723	1,185.8	512.8	253.4
29	Petroleum refining	095	10.5	49.0	42.2	65.7	444.5	364.5	1	65.7	444.5	364.5
30	Rubber & plastic manufacturing	095	8.8	1.1	1.7	67.6	8.0	12.9	1,209,286,804	81.7	9.7	15.6
32	Stone, clay, glass, and concrete products	095	29.4	1,193.3	316.1	168.6	6,563.0	1,738.5	1,704,112,787	287.3	11,184.1	2,962.5
33	Primary metal industries	095	81.4	288.2	242.8	479.5	1,578.0	1,320.3	1,860,995,458	892.3	2,936.6	2,457.1
34	Fabricated metal products, except machinery and transportation equipment	095	250.3	69.7	34.5	1,574.8	477.1	229.8	1,723,076,923	2,713.5	822.1	396.0
35	Machines & computer equipment manufacturing	095	23.1	2.9	0.4	238.9	30.0	4.2	1,095,952,207	261.9	32.9	4.6
36	Electronic equipment & components, except computer equipment manufacturing	095	19.1	49.3	21.4	130.5	300.0	131.6	1,293,747,776	168.8	388.2	170.2
37	Transportation equipment manufacturing	095	40.8	0.9	0.1	297.5	4.9	0.4	1,832,050,134	545.0	9.0	0.8
38	Technical instrument manufacturing	095	10.6	0.9	0.1	72.8	5.8	0.4	1,486,406,236	108.2	8.6	0.7
42	Motor freight transportation & warehousing	095	0.2			1.3			1,358,181,141	1.7		
43	United States Postal Service	095	0.0	0.3	0.3	0.1	0.8	0.6	1,139,498,887	0.1	1.0	0.7
48	Communications	095		7.2	3.1		275.4	118.5	1,257,965,057		346.4	149.0

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49	Electric, gas, & sanitary services	095	286.2	21,986.4	973.2	1,919.5	158,792.6	7,665.3	1.367036767	2,624.1	217,075.3	10,478.7
50	Wholesale trade - durable goods	095	6.8	0.1	0.0	37.5	0.3	0.1	1.474463973	55.3	0.4	0.1
51	Wholesale trade - nondurable goods	095	38.1	1.9	0.5	209.4	5.3	1.3	1.474463973	308.8	7.9	1.9
70	Hotels & other lodging places	095	0.6	12.8	3.4	6.9	154.4	41.2	1.242387333	8.5	191.9	51.2
72	Personal services	095	91.9	0.3	0.2	650.2	2.1	1.3	1.238509202	805.3	2.6	1.5
73	Business services	095	8.6	18.5	3.7	67.2	145.4	29.0	1.217944979	81.8	177.1	35.4
75	Automotive repair, services and parking	095	11.6	1.3	0.2	89.4	9.0	1.3	1.513755098	135.3	13.7	2.0
80	Health services	095	8.4	83.5	28.5	53.6	523.5	191.7	1.334045204	71.5	698.3	255.7
82	Educational services	095	0.3	12.7	3.1	1.4	55.1	13.3	1.277193635	1.8	70.4	17.0
84	Museums, art galleries, and botanical & zoological gardens	095	0.0	0.0	0.0	0.1	0.1	0.2	1.363636364	0.1	0.1	0.3
86	Membership organizations	095	1.3	0.4		8.1	2.4		1.266277585	10.2	3.1	
87	Engineering, accounting and other professional services	095	1.9	16.7	3.0	14.1	122.1	22.0	1.380471059	19.4	168.6	30.4
JACKSON COUNTY TOTALS			1,954.7	23,986.2	2,008.5	12,647.9	170,631.8	13,776.1	45.7	17,321.9	236,056.5	19,897.9
PLATTE COUNTY												
27	Printing & publishing	165	63.2	0.0	0.0	443.2	0.1	0.0	1.086895585	481.7	0.1	0.0
29	Petroleum refining	165	0.5	6.3	1.7	4.9	59.1	15.8	1	4.9	59.1	15.8
30	Rubber & plastic manufacturing	165	99.0	1.2	1.0	645.4	7.8	6.5	1.209286804	780.5	9.5	7.9

## 3.4.4

## APPENDIX D

On-road emissions and MOBILE6 parameters.

MOBILE6 inputs: default vehicle age distribution; 7.2 RVP gasoline in 1999; 7.0 RVP gasoline in 2012; refueling emissions not included (refueling emissions are included in area source inventory)

Year	1999	2012	2020
Non-local DVMT	37,575,888	47,925,799	53,653,284
Local DVMT	8,397,659	10,710,712	11,990,721
Total DVMT	45,973,547	58,636,511	65,644,005

VOC (tons/osd)	92.3	41.2	30.6
NOx (tons/osd)	152.9	67.2	36.5
CO (tons/osd)	1092.4	579.0	526.2

conversion factor:  $1.10 \times 10^{-6}$  tons/gram

32	Stone, clay, glass, and concrete products manufacturing	165	0.5	25.6	6.4	3.2	158.6	39.6	1.704112787	5.5	270.2	67.5
37	Transportation equipment manufacturing	165	32.2	5.3	3.8	175.4	28.7	20.8	1.832050134	321.3	52.5	38.2
45	Air transportation	165	29.1	57.5	24.0	156.1	308.4	131.0	1.463844001	228.6	451.5	191.7
49	Electric, gas, & sanitary services	165	81.4	6,440.7	681.3	482.9	38,512.4	4,128.3	1.367036767	660.2	52,647.9	5,643.6
51	Wholesale trade - nondurable goods	165	79.8	4.5	9.1	438.2	24.9	49.7	1.474463973	646.1	36.7	73.3
72	Personal services	165	4.6	0.0	0.0	29.6	0.1	0.1	1.238509202	36.6	0.2	0.1
73	Business services	165	0.1	3.4	0.8	0.5	14.4	3.5	1.217944979	0.6	17.5	4.3
75	Automotive repair, services and parking	165	16.5	1.2	1.0	120.4	8.7	7.5	1.513755098	182.3	13.2	11.3
PLATTE COUNTY TOTALS			407.0	6,545.7	729.2	2,499.9	39,123.3	4,402.9		3,348.2	53,558.5	6,053.7
TOTALS (LBS/OSD)			4,808.4	31,171.2	2,941.4	31,889.7	214,484.2	19,484.9		49,263.2	296,427.5	28,033.5
TOTALS (TONS/OSD)			2.4	15.6	1.5	15.9	107.2	9.7		24.6	148.2	14.0

1999 Kansas City Regional Emissions Inventory: Nonroad Emissions

<b>Railroad Equipment</b>						
Clay	0.0	0.0	20.0	20.0	40.0	44.0
Jackson	20.0	0.0	80.0	60.0	180.0	184.0
Platte	0.0	0.0	0.0	0.0	20.0	20.0
<b>Totals</b>	<b>20.0</b>	<b>0.0</b>	<b>100.0</b>	<b>80.0</b>	<b>240.0</b>	<b>248.0</b>
<b>Total Nonroad Emissions (lbs./OSD)</b>						
	41,057.1	24,120.6	73,593.3	61,094.6	567,361.8	701,350.3
<b>Total Nonroad Emissions (tons/OSD)</b>						
	20.5	12.1	36.8	30.5	283.7	350.7

1999 Kansas City Regional Emissions Inventory: Nonroad Emissions

Category/ County	1999 VOC lbs/day	2012 VOC lbs/day	1999 NOx lbs/day	2012 NOx lbs/day	1999 CO lbs/day	2012 CO lbs/day
<b>Agricultural Equipment</b>						
Clay	200.0	116.0	1,640.0	1,148.0	960.0	1,052.0
Jackson	240.0	136.0	2,040.0	1,416.0	1,200.0	1,300.0
Platte	340.0	192.0	2,900.0	2,008.0	1,700.0	1,852.0
<b>Totals</b>	<b>780.0</b>	<b>444.0</b>	<b>6,580.0</b>	<b>4,572.0</b>	<b>3,860.0</b>	<b>4,204.0</b>
<b>Aircraft</b>						
Clay	101.5	131.2	15.3	19.8	2,828.5	3,654.2
Jackson	106.7	138.1	16.1	20.8	2,971.4	3,846.6
Platte	1,454.6	1,933.0	4,023.3	5,347.4	8,282.8	11,002.4
<b>Totals</b>	<b>1,662.8</b>	<b>2,202.3</b>	<b>4,054.7</b>	<b>5,387.9</b>	<b>14,082.8</b>	<b>18,503.3</b>
<b>Airport Equipment</b>						
Clay	0.0	0.0	20.0	20.0	40.0	44.0
Jackson	0.0	0.0	20.0	20.0	40.0	40.0
Platte	100.0	40.0	480.0	392.0	820.0	984.0
<b>Totals</b>	<b>100.0</b>	<b>40.0</b>	<b>520.0</b>	<b>432.0</b>	<b>900.0</b>	
<b>Commercial Marine Vessels</b>						
Clay	6.7	6.7	176.6	176.6	19.5	19.5
Jackson	9.3	9.3	244.3	244.3	26.9	26.9
Platte	18.3	18.3	477.7	477.7	52.7	52.7
<b>Totals</b>	<b>34.3</b>	<b>34.3</b>	<b>898.6</b>	<b>898.6</b>	<b>99.0</b>	<b>99.0</b>
<b>Construction Equipment</b>						
Clay	1,280.0	548.0	6,820.0	4,664.0	8,280.0	7,520.0
Jackson	5,820.0	2,512.0	31,060.0	21,268.0	37,700.0	34,212.0
Platte	980.0	428.0	5,240.0	3,584.0	6,380.0	5,780.0
<b>Totals</b>	<b>8,080.0</b>	<b>3,488.0</b>	<b>43,120.0</b>	<b>29,516.0</b>	<b>52,360.0</b>	<b>47,512.0</b>
<b>Industrial Equipment</b>						
Clay	320.0	148.0	2,240.0	2,484.0	8,660.0	8,796.0
Jackson	1,020.0	484.0	7,020.0	7,784.0	26,460.0	26,988.0
Platte	60.0	36.0	420.0	448.0	1,360.0	1,420.0
<b>Totals</b>	<b>1,400.0</b>	<b>668.0</b>	<b>9,680.0</b>	<b>10,716.0</b>	<b>36,480.0</b>	<b>37,204.0</b>

1999 Kansas City Regional Emissions Inventory: Nonroad Emissions

<b>Commercial Lawn &amp; Garden Equipment</b>						
Clay	2,340.0	1,292.0	580.0	580.0	33,360.0	41,788.0
Jackson	13,580.0	7,496.0	3,320.0	3,400.0	193,820.0	242,728.0
Platte	800.0	432.0	200.0	200.0	11,320.0	14,192.0
<b>Totals</b>	<b>16,720.0</b>	<b>9,220.0</b>	<b>4,100.0</b>	<b>4,180.0</b>	<b>238,500.0</b>	<b>298,708.0</b>
<b>Residential Lawn &amp; Garden Equipment</b>						
Clay	1,060.0	596.0	60.0	80.0	15,980.0	19,548.0
Jackson	4,620.0	2,552.0	280.0	324.0	69,300.0	84,724.0
Platte	400.0	220.0	20.0	20.0	5,840.0	7,140.0
<b>Totals</b>	<b>6,080.0</b>	<b>3,368.0</b>	<b>360.0</b>	<b>424.0</b>	<b>91,120.0</b>	<b>111,412.0</b>
<b>Commercial Equipment</b>						
Clay	920.0	644.0	800.0	932.0	22,340.0	32,652.0
Jackson	3,420.0	2,440.0	2,980.0	3,512.0	84,040.0	122,748.0
Platte	280.0	188.0	240.0	284.0	6,720.0	9,828.0
<b>Totals</b>	<b>4,620.0</b>	<b>3,272.0</b>	<b>4,020.0</b>	<b>4,728.0</b>	<b>113,100.0</b>	<b>165,228.0</b>
<b>Pleasure Craft</b>						
Clay	240.0	176.0	20.0	20.0	520.0	524.0
Jackson	220.0	156.0	20.0	20.0	460.0	468.0
Platte	120.0	96.0	0.0	20.0	280.0	284.0
<b>Totals</b>	<b>580.0</b>	<b>428.0</b>	<b>40.0</b>	<b>60.0</b>	<b>1,260.0</b>	<b>1,276.0</b>
<b>Railroad Locomotives</b>						
Clay	0.0	0.0	0.0	0.0	0.0	0.0
Jackson	0.0	0.0	0.0	0.0	0.0	0.0
Platte	0.0	0.0	0.0	0.0	0.0	0.0
<b>Totals</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Recreational Equipment</b>						
Clay	140.0	124.0	20.0	20.0	3,140.0	3,512.0
Jackson	560.0	548.0	80.0	60.0	9,260.0	10,236.0
Platte	280.0	284.0	20.0	20.0	2,960.0	3,208.0
<b>Totals</b>	<b>980.0</b>	<b>956.0</b>	<b>120.0</b>	<b>100.0</b>	<b>15,360.0</b>	<b>16,956.0</b>